

Product Bulletin



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Milestone[®]

EPA Reg. No. 62719-519

2(ee) Recommendation †

For Use and Distribution in the State of Texas Only

Control of Woody Plants with Foliar, Basal and Cut Surface Applications On Non-Cropland Areas Including Industrial Sites, And Rights-Of-Way (Such As Roadsides, Electric Utility and Communication Transmission Lines, Pipelines, And Railroads) and natural areas (such as wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads and trails), and grazed areas in and around these sites.

ATTENTION

† This recommendation is made as permitted under FIFRA 2(ee) and has not been submitted to or approved by the EPA.

- It as a violation of Federal law to use this product in a manner inconsistent with its labeling.
- Read and follow all applicable directions for use, precautions and limitations on the product label attached to the container for Milestone herbicide.

Directions for Use

Woody Plant Control

Milestone[®] herbicide may be applied alone or in tank-mix combinations with labeled rates of other herbicides provided: (1) the tank mix product is labeled for the timing and method of application for the use site to be treated and (2) mixing is not prohibited by the label of the registered tank mixed products.

Add Milestone to brush control tank mixes for improved control on species such as alder, aspen, coyotebrush, conifers (pine and cedar), elm, maple, cherry, poplar, oak, broom (Scotch, Spanish, French, and Portuguese), boxelder, gorse, hackberry, Russian-olive, saltcedar, and blackberry.

Foliar Applications:

For broad spectrum brush control using a foliar application, Milestone may be added to tank mixes with other herbicides such as Accord[®] XRT II, Rodeo[®], Arsenal[®] PowerLine™, Garlon[®] 4 Ultra, Forestry Garlon XRT, Garlon 3A, Tordon[®] K, or other products labeled for use on these sites.

Low Volume Basal Bark Applications:

To control susceptible woody plants with stems less than 6 inches in basal diameter, apply herbicide mix (see below for rates) with a backpack or knapsack sprayer using low pressure and a solid cone or flat fan nozzle. Spray the basal parts of brush and tree trunks to a height of 12 to 15 inches from the ground in a manner that thoroughly wets the lower stems but not to the point of runoff. The use of a Spraying Systems Y2 nozzle or similar nozzle is recommended, which will narrow the spray pattern to target

individual stems. Herbicide concentration can be adjusted to account for tree diameter, bark thickness, density of target trees, and susceptibility of species treated.

Apply anytime, including the winter months, except when water prevents spraying to the ground line or when stem surfaces are saturated with water. If snow prevents spraying to the ground line, the treatment band may be positioned at any height up to the first major branch. For best results apply the band as low as possible.

Milestone may be used as a low volume basal treatment alone, for sensitive woody species in the Fabaceae family (legumes), or in combination with Garlon 4 Ultra or Forestry Garlon XRT, for broader control of other sensitive woody species. Applications should not exceed the maximum use rate per acre.

Low Volume Basal Bark Application Rates:

Mix Milestone at 0.5 to 5% v/v alone, or with Garlon 4 Ultra or Forestry Garlon XRT in a commercially available basal diluent (or other oils or basal diluents as recommended by the manufacturer); the basal oil should be compatible with a water soluble herbicide such as Milestone. See table 1 to calculate the amount of Milestone that can be applied per acre at the various volumes and rates. Make a stable tank mixture for basal bark application by first combining each product with a compatibility agent prior to final mixing in the desired ratio. Mix Milestone and Garlon 4 Ultra or Forestry Garlon XRT (if using a tank mix) thoroughly with basal oil; if the mixture stands for more than 30 minutes, reagitation may be required. Do not store the final mixture.

Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone) per acre per annual growing season; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz) per acre of Milestone per annual growing season as a result of broadcast, spot or repeat applications. See Table 1 below for mixing and application rates by volume (gallons per acre/GPA). See Table 2 for information about stem densities and use rates per acre.

Avoid treating high density of stems adjacent to desirable trees with roots in the treatment zone. Trees adjacent to or in a treated area can occasionally be affected by root uptake of Milestone. Do not apply Milestone within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and leguminous trees such as locusts, redbud, mimosa, and caragana.

Table 1:

% of Milestone in Basal Mix	Fluid ounces of Milestone by GPA (gallons per acre)						
	1	2	3	4	5	6	7
1.0	1.3	2.6	3.8	5.1	6.4	7.7	9.0
1.5	1.9	3.8	5.8	7.7	9.6	11.5	13.4
2.0	2.6	5.1	7.7	10.2	12.8		
2.5	3.2	6.4	9.6	12.8			
3.0	3.8	7.7	11.5				
3.5	4.5	9.0	13.4				
4.0	5.1	10.2					
5.0	6.4	12.8					

	within spot treatment labeled rate
	in excess of spot treatment labeled rate

Table 2:

Gallons per acre for basal bark applications on various densities of stems per acre			
	Volume/Acre Range		Target
Number of Stems/Acre	Gal/Acre	Gal/Acre	Spacing
250	1.0	1.7	8.4
500	2.0	3.3	5.9
750	3.0	5.0	4.9
1000	4.0	6.6	4.2
1250	5.0	8.3	3.8
1500	5.9	9.9	3.4

Cut Surface Applications Including Cut Stump, Tree Injection, Hack & Squirt and Frill & Girdle:

Apply Milestone alone in the cut surface applications listed below for control of susceptible tree species such as legumes like Albizia, mimosa, and locust. Mixtures of Milestone and Garlon 3A or Garlon 4 Ultra are effective on species other than legumes such as elm, maple, cherry, sweet gum, poplar, oak and conifers.

Cut surface applications may be used successfully at any season of the year except during periods of heavy sap flow of certain species - for example, maple.

Cut-Stump Treatment

Apply Milestone as a 10% dilution v/v in water, by spraying or painting all of the exposed cambium layer on the cut surfaces of freshly cut surfaces immediately after cutting. The cambium area next to the bark is the most vital area to wet.

Basal Cut Stump Treatment

Apply with a backpack or knapsack sprayer using low pressures and a solid cone or flat fan nozzle. Spray the outer portion of the cut surface of the stump including the cambium, the sides of the stump, the root collar area and any exposed roots of root suckering species until thoroughly wet but not to the point of runoff. Spray mixture concentration should vary with size and susceptibility of species treated.

Mix Milestone at 1 to 5% v/v alone, or with Garlon 4 Ultra or Forestry Garlon XRT in a commercially available basal diluent (or other oils or basal diluents as recommended by the manufacturer); the basal oil should be compatible with a water soluble herbicide such as Milestone. Make a stable tank mixture for basal bark application by first combining each product with a compatibility agent prior to final mixing in the desired ratio. Mix Milestone and Garlon 4 Ultra or Forestry Garlon XRT (if using a tank mix) thoroughly with basal oil; if the mixture stands for more than 30 minutes, reagitation may be required. Do not store the final mixture.

With Tree Injector Method

Apply by injecting 1 milliliter of 10% v/v Milestone in water through the bark at intervals of 3 to 4 inches between centers of the injector wound. The injections should completely surround the tree at any convenient height.

With Hack and Squirt Method

Make cuts around the tree trunk at a convenient height with a hatchet or similar equipment so that the cuts overlap slightly and make a continuous circle around the trunk. Spray 1 milliliter of 10% v/v Milestone in water into the pocket created between the bark and the inner stem/trunk by each cut.

With Frill or Girdle Method

Make a single girdle through the bark completely around the tree at a convenient height. The frill should allow for the herbicide to remain next to the inner stem and absorb into the plant. Wet the cut surface with 10% v/v Milestone in water.

Chemical Side Trimming

Milestone may be tank mixed with, Garlon 3A, Rodeo, Krenite[®] or other labeled herbicides for effective chemical limb trimming applications. These applications are designed to control only the portion of the plant which is treated. Mix Milestone at 0.1 – 0.4%v/v plus recommended rate of a tank mix partner(s) plus surfactant. Use lower rates where GPA is higher not to exceed Milestone maximum label rate. Direct the spray solution to thoroughly cover only the portion of the plant to be controlled. Avoid spraying the crown of the tree to provide for side trimming and not complete control of the tree.

Applications for Bareground

For preemergent applications apply Milestone at 7 fl oz per acre. When applied at lower rates, Milestone can provide short-term control of some susceptible weeds but when applied at higher rates, weed control is extended.

Milestone provides preemergent and post emergent control of susceptible weeds. See the Milestone label for directions on use for post emergent applications. Preemergent applications of Milestone can prevent germination and establishment of weeds, reducing weed biomass in treated areas. Apply Milestone as a preemergence spray before or during the rainy season when weeds are actively germinating. Control with preemergent applications will depend upon application rate, species susceptibility, application timing, and environmental conditions, such as precipitation, following application.

Best results for total vegetation control are obtained if Milestone at 7 fl oz per acre is tank mixed with other herbicides to broaden the weed spectrum and control grasses. If grasses and tolerant broadleaf weeds are present at application or will germinate on the site then tank mixtures with other herbicides, such as Accord XRT II, Rodeo, Dimension[®] 2EW or Dimension EC (annual grasses), Oust[®] XP, Payload[®], diuron, or other herbicides for bareground applications.

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